

Prospectus

of

AUG 7 1953

FUNDY BAY COPPER MINES LIMITED  
(No Personal Liability)

Under

The Securities Act (Ontario)

1. Fundy Bay Copper Mines Limited (No Personal Liability), hereinafter called the "Company", was incorporated under The Companies Act of the Province of Ontario by Letters Patent dated 9th October, 1951. Its head office is 170 Bay Street, Toronto, Ontario. The Company is also licensed to carry on business in New Brunswick under The Companies Act of that Province.

2. President, Director and Managing Director	John George McCombe, 41 Summit Avenue, Sault Ste. Marie, Ont.	Mining Geologist
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Vice-President and Director	Dr. James Bruce Symington, 1088 Queen Street East, Sault Ste. Marie, Ont.	Physician
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Secretary-Treasurer and Director	Hylde Moriarty, 10 Tichester Road, Toronto, Ontario.	Secretary
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Director	Ambrose Wheeler, 13 Ralph Street, Moncton, New Brunswick.	General Contractor
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Director	Robert James McCombe, Sioux Lookout, Ontario.	Mining Geologist
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Promoter	John George McCombe, 41 Summit Avenue, Sault Ste. Marie, Ont.	Mining Geologist
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3. Auditors	Charles H. Sanders & Company, 21 Dundas Square, Toronto, Ontario.
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4. Registrar and Transfer Agent	Crown Trust Company, 302 Bay Street, Toronto, Ontario.
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5. The authorized capital of the Company consists of 3,000,000 shares of the par value of \$1.00, of which 1,259,642 have been issued and fully paid.

6. There are no bonds or debentures outstanding, nor does the Company propose to issue any.

7. A total of 675,000 shares are held in escrow by the Crown Trust Company subject to release pro rata to all persons entitled thereto upon the consent of the Ontario Securities Commission and the Directors of the Company. The consent of the Ontario Securities Commission will be dependent upon the stage of development reached by the Company and the condition of its finances at the time any application is made therefor. The written consent of the Ontario Securities Commission is required for any transfer or other alienation of shares within the escrow. No shares have been released from escrow to date.

8. The following shares have been sold for cash to date:

5 shares @ \$1.00	per share	\$ 5.00
163,000 shares @ .10	per share	16,300.00
295,400 shares @ .15	per share	44,310.00
21,237 shares @ .20	per share	4,247.40
<u>30,000 shares @ .37½</u>	<u>per share</u>	<u>11,250.00</u>
<u>509,642</u>		<u>\$76,112.40</u>



No commission was paid or is payable in respect of the said shares although a commission was payable to the President of the Company who sold the block of 10¢ shares. This commission has been waived by him and will therefore not be paid. There are no securities of the Company other than shares.

9. No shares have been issued or are to be issued, nor was any cash paid nor is any payable to any promoter for promotional or other services, except that John George McCombe, promoter of the Company, Sault Ste. Marie, Ontario, is entitled to receive a monthly fee of \$1250.00 for his services as Managing Director and Engineering Consultant to the Company.

10. (a) -

(i) The Company was the recorded holder of four 40 acre mining claims in the New Horton District, Parish of Harvey, Albert County, New Brunswick which it allowed to lapse. The Company has restaked these claims and the group now comprises eight 40 acre claims Nos. 1522-74 to 1522-81 inclusive and covers substantially the same area on which the original four claims were located. The Company has entered into an agreement with John M. Home, Montreal, Quebec, as nominee of J.C. Udd, Montreal, Quebec, whereby the claims have been transferred to Mr. Home for \$4,000.00. The Purchaser has agreed to expend a minimum of \$10,000 for exploration and development work on the claims before 1st April, 1954, and to assign to the Company 25% of any cash or share consideration received by the Purchaser on a sale of the claims, or 25% of any royalty received pursuant to any royalty mining agreement entered into respecting the claims. The claims may be re-transferred to the Company in the event the Purchaser is not further interested in the claims, without cost to the Company.

(ii) The Company is the registered owner of a mining concession comprising 28.36 square miles situated three miles in a north-easterly direction from the Village of Dorchester in the County of Westmoreland, in the Province of New Brunswick. It is the Company's intention to surrender the concession and, on the basis of the work performed to date, apply for a mining lease covering 20 claims located to embrace the most important part of the area covered by the concession.

(iii) The Company is the recorded holder of a group of 12 claims, comprising about 480 acres, Nos. PA 13784-13795 inclusive in the Patricia Mining Division situated near Sioux Lookout in Pickerel Township, Province of Ontario.

(iv) The Company was granted a mining concession comprising an area of thirty square miles situated in the Parishes of Wakefield and Woodstock in the County of Carleton, Province of New Brunswick. By Order-in-Council, Nos. 52-644 the Company was entitled to prospect and explore for ferro-manganese ores over the area comprised in the said concession. At the request of the Company the concession was transferred under Order-in-Council No. 53-268 to John M. Home, as nominee for J.C. Udd, for \$5,000.00. The Purchaser is committed to carry out a minimum of 5,000 feet of AXT diamond drilling, and 15 lineal miles of geophysical traverse in the area. Upon completion of this work the Purchaser has agreed to transfer to the Company 250,000 shares of a company to be formed to develop the concession or 25% of any royalty agreement entered into by the Purchaser or 25% of any cash sale made by the Purchaser. The concession will revert to the Company if the Purchaser decides further development work is not warranted after completion of the work agreed to be undertaken.

(v) The Company is the recorded holder of four groups of mining claims in the Southeast Upsalquitch area in the Parish of Balmoral in the County of Restigouche in the Province of New Brunswick numbered as follows:

Group I - Nos. 1522-1 to 1522-21 inclusive, comprising 21 claims covering an area of 840 acres

Group II - Nos. 1522-26 to 1522-55 inclusive, comprising 30 claims covering an area of 1,200 acres

Group III - Nos. 1522-22 to 1522-25 inclusive and 1522-56 to 1522-71 inclusive, comprising 20 claims covering an area of 800 acres

Group IV - Nos. 1522-82 to 1522-102 inclusive, comprising 21 claims covering an area of about 840 acres.



(vi) The Company, together with McCombe Mining and Exploration Limited (hereinafter called "the Optionees"), also has an option to purchase 35 claims in the same area as its last four groups of claims from William Gendron and Herby Levesque of Eel River Crossing, New Brunswick and John Tweedie, Dalhousie, New Brunswick. The Company has one year from 8th March, 1953, in which to exercise this option and in the meantime it has committed itself to spend at least \$5,000.00 in exploration and development work on the said claims. In the event the option to purchase is exercised the Optionees have agreed to transfer to the Vendors 25% of any consideration received on a sale or other disposal or arrangement made respecting the said claims under option.

(vii) The Company is the recorded holder of 16 unpatented mining claims, comprising about 640 acres, Nos. SSM-16764 to SSM-16777 inclusive and SSM-24278 and SSM-24287 in the Sault Ste. Marie Mining Division located in Township 28, Range 15 of the District of Algoma, the northwest corner of which touches the north shore of Lake Superior just to the east of the Montreal River. These claims were previously held under an option subsequently exercised by the Company.

10. (b) -

(i) The Company acquired the group of claims referred to in paragraph 10.  
(a) (i) from the Government of the Province of New Brunswick at no cost to itself.

(ii) The Vendor of the Mining Concession referred to in paragraph 10. (a) (ii) hereof to the Company was John G. McCombe, 41 Summit Avenue, Sault Ste. Marie, Ontario, in consideration of the allotment and issue of 750,000 fully paid shares of the capital stock of the Company to the said John G. McCombe, of which 675,000 have been placed in escrow with Crown Trust Company, subject to the terms set forth in paragraph 7 hereof. By Order-in-Council No. 52-39 dated 10th January, 1952, of the Government of the Province of New Brunswick the said Mining Concession was granted, at the request of the Vendor, to the Company upon the Company making payment of \$1,000.00 to the Crown as a guarantee of performance of work on the property.

(iii) The Company acquired the claims described in paragraph 10. (a) (iii) by staking, the cost of which to the Company amounted to \$682.16.

(iv) The Company acquired the Mining Concession referred to in paragraph 10.  
(a) (iv) hereof at no cost to itself, from the Government of the Province of New Brunswick.

(v) The Company acquired the four groups of claims referred to in paragraph 10. (a) (v) hereof by staking at no cost to itself except costs of staking, amounting to \$7,804.34.

(vi) The only consideration for the option held by the Company on the claims referred to in paragraph 10. (a) (vi) is a work commitment by the Company to the extent of a minimum amount of \$5,000.00.

(vii) The Company acquired the claims referred to in paragraph 10. (a) (vii) hereof for \$9,000.00. The vendor of the claims was John G. McCombe who subscribed for and purchased 50,000 shares of the capital stock of the Company in satisfaction of \$5,000.00 of the purchase price and \$4,000.00 was paid in cash to F.D. Stibbard, prospector, Geraldton, Ontario, who was interested in the claims.

10. (c) The only persons who have received or are entitled to receive more than 5% interest of the cash consideration for the claims referred to in paragraph 10. (a) (vii) is F.D. Stibbard, Geraldton, Ontario and Precious Metals Prospecting Syndicate, Sault Ste. Marie, Ontario. The only persons who have received or are entitled to receive more than 5% of the 750,000 shares received by John G. McCombe are:

Robert James McCombe,  
Sioux Lookout, Ontario.

Olive Isabel McCombe,  
Michael McCombe,  
James David McCombe,  
John Ellis McCombe,  
all of 41 Summit Avenue,  
Sault Ste. Marie, Ontario.



Ambrose and Gerald Wheeler,  
13 Ralph Street,  
Moncton, New Brunswick.

11. (a) An account of the known history of the properties, the accessibility thereto, the surface and underground exploration and development are contained in the reports of Franc. Joubin, P.Eng. dated December 7th and 8th, 1951 and May 4th, 1953, which cover the properties referred to in paragraph 10. (a) (i) and (ii), respectively, and in the reports of G.C. McCartney, P.Eng. dated May 1st, 1952 and July 23rd, 1952, which cover the properties referred to in paragraphs 10. (a) (iii) and (iv) and in the report of Frederick C. Knight, P.Eng. dated March 18th, 1953 which covers the properties referred to in paragraphs 10. (a) (v) and (vii), respectively, to which reference is hereby made and which accompany and should be construed as forming a part of this Prospectus. Since the claims described in paragraph 10. (a) (vi) are in the same area as those described in 10. (a) (v), the latter report is also applicable to the option claims in respect of their general characteristics. There is no underground or surface plant or equipment on any of the Company's properties.

(b) It is planned that the proceeds from the current sales of the Company's securities will be expended in accordance with the recommendations of the Company's Engineers contained in their respective reports referred to in paragraph 11. (a) hereof. Ventures Limited, under an arrangement made with the Company at no cost to it, carried out at least 2500 feet of AXT diamond drilling on the Mining Concession referred to in paragraph 10. (a) (ii). On the Company's other Mining Concession referred to in paragraph 10. (a) (iv) a geophysical survey has been completed and further development work has been arranged for as outlined in paragraph 10 (a) (iv). The Company is currently conducting an electro-magnetic survey on the group of claims referred to in paragraph 10. (a) (v) and (vi). Development work on the property referred to in paragraph 10. (a) (i) has been arranged for but to date the Company itself has not done any development or exploration work on this property and the properties referred to in paragraphs 10. (a) (iii) and (vii).

12. (a) The Company was initially financed through the Company selling its own shares directly to the public which netted the treasury \$24,130.00 for 215,200 shares so sold. The Company was granted registration as a Security Issuer under which one of its officers was authorized to sell the Company's shares to the public on the basis of a minimum of 75% of the proceeds received from the sale of such shares being paid into the treasury of the Company. Since no commission was paid in respect of these sales, the Company actually received greater than 75% of the proceeds.

(b) By agreement dated February 6th, 1953, R.A. Lambert & Company, stock broker, Fredericton, N.B. (hereinafter called the "Underwriter") purchased 243,200 shares of the capital stock of the Company at 15¢ per share and paid \$36,480.00 therefor. By agreement dated April 28th, 1953 the Underwriter agreed to purchase 25,000 shares at 20¢ per share for a total of \$5,000.00 payable within seven days of the effective date, being June 12th, 1953. In consideration of this firm purchase the Company granted to the Underwriter the sole and exclusive option to purchase all or any part of an additional 975,000 shares to be exercised at the following times and prices:

- 175,000 shares @ 20¢ per share within 30 days of the effective date;
- 200,000 shares @ 25¢ per share within 3 months of the effective date;
- 200,000 shares @ 45¢ per share within 6 months of the effective date;
- 200,000 shares @ 60¢ per share within 9 months of the effective date;
- 200,000 shares @ 75¢ per share within 12 months of the effective date.

In the event of default by the Underwriter on any of the option dates the Company has the right to cancel the agreement by giving the Underwriter fifteen days' notice in writing of its intention to do so. The Company undertakes, in the event of default by the Underwriter, to file an amendment to this prospectus within 20 days of such default, providing the shares of the Company are still in the course of primary distribution. There are no sub-option or sub-underwriting agreements outstanding nor proposed at the present time nor does the Underwriter propose to assign his agreement. R.A. Lambert, who is the sole owner of R.A. Lambert & Company, has entered into this agreement on behalf of himself and Samuel Beach Jones, Mountain Lake, N.J.

(c) The Underwriter has advised the Company that he proposes to distribute the shares purchased by him under the aforementioned agreement in either of the following ways:



1. By engaging the services of registered security dealers in Ontario and other provinces to sell the shares on his behalf as agents under an arrangement whereby the Underwriter may pay such security dealers a commission up to 25% of the selling price of the shares so sold on his behalf, and also to pay the promotional expenses of such security dealers including mailing, advertising, etc.; or
2. By granting sub-options or sub-underwriting agreements to registered security dealers at a price not in excess of 1¢ per share above the price required to be paid by the Underwriter to the Company pursuant to his agreement mentioned in paragraph 12. (b).

13. There is no indebtedness to be created or assumed other than commitments made in the ordinary course of the Company's business which is not shown on the balance sheet as of April 30th, 1953 filed with the Ontario Securities Commission, accompanying and forming a part of this Prospectus and to which reference is hereby made.

14. (a) The following are the particulars with regard to the particular business in which each director or officer of the Company has been engaged during the past three years:

John G. McCombe	Professional Engineer and Mining Geologist on own account and Managing Director of the Company.
Dr. James Bruce Symington	Physician practising on own account.
Hylde Moriarty	Secretary with Minerva Mining Corporation Limited, 170 Bay Street, Toronto, Ontario; prior to that, housewife; and prior to that, Secretary with McKenzie Securities Limited, Toronto, Ontario.
Ambrose Wheeler	President of Ambrose Wheeler Limited, Moncton, New Brunswick, General Contractors.
Robert James McCombe	Mining Geologist on own account.

(b) No Director or Officer of the Company has, or ever had, any interest, direct or indirect, or either personally or as a partner in a firm or syndicate, in any property acquired or to be acquired by the Company, save John G. McCombe, the President and Managing Director, who was the promoter of the Company and who caused the property referred to in paragraph 10. (a) (ii) hereof to be granted to the Company for the consideration set out in paragraph 10. (b) (ii) hereof. John G. McCombe sold the claims referred to in paragraph 10. (a) (vii) to the Company.

(c) The Company has not paid during the last financial year nor does it intend to pay during the current financial year any remuneration to its directors and officers save to John G. McCombe who received \$6,000.00 in fees for the past financial year for his services as Managing Director and Engineering Consultant to the Company and to Hylde Moriarty who received \$400.00 for the past financial year for her secretarial services. For the current financial year Mr. John G. McCombe will receive \$15,000.00 per year starting May 1st, 1953 and Mrs. Moriarty will receive \$75.00 per month starting March 1st, 1953.

15. No dividends have been paid by the Company to date.

16. By reason of the ownership of the Vendor shares of the Company, John G. McCombe, 41 Summit Avenue, Sault Ste. Marie, Ontario, Robert J. McCombe, Sioux Lookout, Ontario and Ambrose and Gerald Wheeler, Moncton, New Brunswick, voting together, are in a position to control a meeting of the shareholders of the Company and consequently to elect or cause to be elected a majority of the Directors of the Company.

17. The signatories hereto are advised that the holders of any vendor shares that are now free or may hereafter be released from escrow may offer such shares for sale or distribution to the security dealers then engaged in the distribution of the shares purchased pursuant to the agreement mentioned in paragraph 12. (b).



If such is done the proceeds resulting from the sale and resale of such shares will not accrue to the treasury of the Company.

The foregoing constitutes full, true and plain disclosure of all material facts in respect of the offering of securities referred to above as required under Section 38 of The Securities Act, (Ontario), and there is no further material information applicable other than in the financial statements where required.

P R O M O T E R

John George McCombe  
by "I. MacF. Rogers"  
His Attorney

D I R E C T O R S

John George McCombe  
by "I. MacF. Rogers"  
His Attorney

Dr. James Bruce Symington  
by "I. MacF. Rogers"  
His Attorney

Hylde Moriarty  
by "I. MacF. Rogers"  
Her Attorney

Ambrose Wheeler  
by "I. MacF. Rogers"  
His Attorney

Robert James McCombe  
by "I. MacF. Rogers"  
His Attorney

To the best of my knowledge, information and belief, the foregoing constitutes full, true and plain disclosure of all material facts in respect of the offering of securities referred to above as required by Section 38 of The Securities Act (Ontario) and there is no further material information applicable other than in the financial statements or reports where required. In respect of matters which are not within my knowledge I have relied upon the accuracy and adequacy of the foregoing.

UNDERWRITER AND OPTIONEE

R. A. Lambert & Company

Russell A. Lambert  
by "I. MacF. Rogers"  
His Attorney

DATED at Toronto, Ontario this 15th day of May, A.D., 1953.

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A REPORT ON  
CLAIMS NUMBERED PA. 13784 - 13795  
PICKEREL TOWNSHIP, ONTARIO  
by  
G. C. McCARTNEY

FOREWORD

The present report is based upon information obtained in the report of M.E. Hurst, Geologist with the Ontario Department of Mines, and published in the 41st Annual Report of the Department, Volume 41, Part VI, 1932. Additional information was obtained from Mr. Robert McCombe, Mining Geologist at Sioux Lookout, Ontario, who has first hand knowledge of the property. The writer is familiar with the general area, having done geological examination work there a few years ago.

LOCATION AND ACCESS

The claims are situated in the south-western part of Pickerel Township, Patricia Mining Division, and the western boundary of the group is present along the Pickerel-McAree Townships boundary line.



The claims may be reached by a trail one and one-quarter miles in length from the southern end of Pickerel Arm, Minnitaki Lake. Direct water transportation is available from Sioux Lookout, a divisional point on the main line of the Canadian National Railways.

#### CLAIM GROUP

The claims, twelve in number, comprise a group three claims wide and four claims long, numbered PA. 13784 - 13795. They are recorded in the Mining Office in Sioux Lookout, Ontario. Some 480 acres are represented by the claims.

#### SURFACE FEATURES

The property lies in an area of generally low relief. A succession of low ridges with north-east - south-west trend yield limited outcrops. The depressions are filled with muskeg and boulder clay.

The area is covered by a mixed growth of timber consisting of spruce, balsam, cedar, poplar and birch. In much of the area travel is hampered by fallen timber.

Water is available in a small lake in the south-eastern part of the Claim Group. It may be necessary in diamond drill development work to pump water from this lake.

#### POWER

Electric power is available at Newlund Mines Limited,  $5\frac{1}{2}$  miles to the north-west.

#### GEOLOGY

The immediate area is underlain by Keewatin greenstones and Temiskaming sediments. Mr. McCombe reports the contact between these formations trends across the northern part of the Claim Group. The sediments are present to the north of the greenstones.

The Keewatin greenstones comprise acid basic and intermediate flows along with some pillow lava and some agglomerate. There are certain porphyry rocks present which have been described by Hurst as feldspar basalt porphyry.

The Temiskaming sediments consist in the main of greywacke and slate and along with these two main rock types there are schistose rocks.

The Swimit Lake granite is exposed approximately one-third of a mile to the south-east of the claims.

A number of porphyry dikes intersect the lavas and they vary in composition from granite porphyry to quartz porphyry.

#### STRUCTURE

The strike of the sediments and the flow rocks is northeast - southwest and the dip ranges from vertical to steeply south-eastward.

The position of certain quartz veins, described by Mr. McCombe, suggests the possibility of there being a synclinal structure present. For example, on the property of McCombe Mining and Exploration Limited immediately to the north-east, the veins strike north-east and dip north-westward at an angle of  $60^{\circ}$ . On the property of Arjon Gold Mines Limited located immediately to the west, the veins dip to the south-east.

#### VEIN OCCURRENCES

The writer has been informed that in the western portion of the property close to the boundary of the Arjon property, a series of pits and trenches expose a quartz vein with average width of 3.5' for length of 150'. A narrow centre section of the vein, in which secondary quartz is present, contains fine-grained galena, sphalerite and chalcopyrite. This section of the vein is reported to yield erratic gold values.



## SUMMARY

1. The geology and structure are regarded as favorable for the deposition of gold.
2. The importance of the area as a source of gold is emphasized by the favorable development taking place at the Newlund and Windward Mines located a few miles to the north-west.
3. The property is readily accessible and, therefore, subject to low cost transportation.

## RECOMMENDATIONS

1. Systematic prospecting should be undertaken and this will consist of stripping and trenching the more attractive sections.
2. A detailed geological mapping programme should be conducted.
3. The nature and scope of continued development of the property will be guided by the results of prospecting and mapping.

"G. C. McCartney"  
G. C. McCARTNEY, P. Eng.

TORONTO, Ontario  
May 1st, 1952.

Registered Professional Engineer  
Mining  
G. C. McCARTNEY  
"G. C. McC."  
Province of Ontario

## C E R T I F I C A T E

I, G. C. McCartney, of the City of Toronto, in the Province of Ontario, hereby testify:

1. I am a Consulting Geologist, and my address is 15 King Street, West, Toronto 1.
2. I obtained the degree of Master of Science at the University of Manitoba in the year 1928, and the degree of Doctor of Philosophy at the University of Wisconsin in the year 1931. Since the year 1931, I have practised, and am now practising, in Canada, my profession as a Geologist.
3. I have no direct or indirect interest whatsoever in securities or the particular area covered in the accompanying report, nor do I expect to receive any.
4. The accompanying report is based upon my knowledge of the immediate area in which the mineral claims are situated, and from personal communication with Mr. Robert McCombe, Mining Geologist, located in that area. Also, the report of M. E. Hurst, of the Ontario Department of Mines, published in Volume 41, Part VI, 1932, has been studied.

DATED this 1st day of June, A.D., 1953.

"G. C. McCartney"  
G. C. McCARTNEY, P. Eng.

Toronto,  
Ontario.

(seal)

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GEOLOGICAL REPORT  
NEW HORTON MINING PROPERTY  
ALBERT COUNTY, N.B.

## HISTORY

The property described is a partially explored copper prospect. The



mineral showings were explored 20 years ago, by a vertical shaft to 100 foot depth together with some lateral work. Subsequently the New Brunswick Provincial Department of Mines performed 1357 feet of diamond drilling on the deposit. The results of the early underground work and more recent drilling indicate the probable presence of copper mineralization of a grade that could be profitably mined at present copper prices.

The writer of this report has not personally examined this property. His sources of information are the reports of Dr. W. J. Wright, former Provincial Geologist for the Province of New Brunswick and Mr. J. G. McCombe, Professional Engineer, Ontario.

#### PROPERTY AND TITLE

The property consists of four forty-acre registered mining claims numbered:

12591  
12592  
12593  
12594

These claims are presently held in the name of Fundy Bay Copper Mines Limited.

#### LOCATION AND ACCESS

The property is situated in the New Horton District, Parish of Harvey, County of Albert, Province of New Brunswick.

The mine workings are on the Albert-Alma Highway 6 miles south of the Town of Albert (a terminal of the Canadian National Railways branch line from Sailsbury) and approximately 32 miles by highway from the main distribution centre of Moncton, New Brunswick.

#### POWER AND WATER

The closest electrical power is at Albert, 6 miles from the property.

A suitable source of water for any milling requirements is present at Haw Haw Lake, on the western portion of the property.

#### GENERAL GEOLOGY

The geology of the New Horton District is shown on Map 648A, issued by the Geological Survey of Canada in 1941. The rocks are of sedimentary origin and Mississippian and Pennsylvanian in age. They are underlain unconformably by high altered volcanics and sediments of Precambrian age which are intruded by granite. Neither intrusive nor extrusive igneous rocks have been found in Carboniferous rocks of this district.

The regional strike of the beds is northeast, and the dip is southeast, but the prevailing monoclinial structure is interrupted by strike faults and by the New Horton anticline which lies about one mile northwest of Chignecto Bay.

The copper deposits occur in sandstone and conglomerate at or near the base of the Shepody formation of Pennsylvanian age. These sediments are conformably underlain by red shale and sandstone of the Meringouin formation which is conformably underlain by sediments of Mississippian age. The copper-bearing horizons contain carbonized fossil plant fragments.

Outcrops of fossiliferous sandstone with malachite stain and chalcocite are alined in two roughly parallel belts that probably are the same geological horizon.

The New Horton belt, 4 miles long, lies  $\frac{1}{2}$  mile west of the Chignecto Bay, within 500 feet of the highway through Upper New Horton, New Horton and Little Ridge. The beds strike northeast and dip southeast at angles of 25 to 90 degrees. Copper minerals show at New Horton mine, in pit 12 at New Horton and pit 13 at Little Ridge, over a total distance of about 3 miles.



## PROPERTY GEOLOGY

The New Horton property is underlain by a section of the New Horton Anticline. This large structure can be traced for 6 miles along strike. The property covers the south limb of this structure. In this section the copper-bearing sandstones and conglomerates strike north 22 degrees east and dip southeasterly at from 60 to 90 degrees.

On the New Horton property, the anticlinal structure plunges towards the northeast and is broken by the New Horton fault. This fault is approximately parallel to the axis of the anticline. It forms a fault contact between the Shepody formation to the north and the Marigouin formation on the south. This fault can be followed for over one-half mile along strike. Diamond drilling has indicated the fault zone to average about 8 feet in width and determined its dip as about 45 degrees to the northwest. It is a normal fault.

The vein material of interest consists of copper sulphide (malachite), occurring in the fossiliferous horizons of the sandstone and conglomerate in the form of dissemination, locally cut by masses or veins of massive chalcocite. This mineralization is considered as of secondary origin. The more massive chalcocite material occurs in or close to the New Horton Fault.

Some 2,000 feet northwest of the New Horton Fault there is a second recognizable fault zone, called the Haw Haw. It appears to be a thrust fault and may prove of some structural significance, since it dips into the New Horton Fault.

## MINERAL DEPOSITS AND DEVELOPMENT

The deposits explored to date occur within the New Horton Fault and its hangingwall.

The exploration work accomplished to date consists of a 100 foot vertical shaft, about 250 feet of drifting on the fault, and 1357 feet of diamond drilling. This work has proved the presence of copper values over a strike length of about 800 feet (ends "open") and vertical depth of 272 feet (depth "open").

Channel sampling of the underground drifting, at 15 foot intervals, is reported to average 2.75% over drift width or 4 feet. At present copper prices this grade can be classed as ore and should be minable at a profit.

The surface diamond drilling results were erratic, producing from very low to spectacular results. The weighted average of the individually erratic drill returns is 2.27% copper over a width of 8 feet. The reasonably close correspondence of this average with the average of underground channel samples is striking and tends to support the conclusion that more material, as presently developed in the drifting, remains to be opened up by additional underground work.

## CONCLUSIONS

1. The New Horton property is exceptionally well situated for a low cost operation.
2. The results of the work performed to date indicate copper mineralization of ore grade to be present and in structures of attractive size.
3. The property can be regarded as a promising copper prospect which merits an exploration program.

## RECOMMENDATIONS

1. A minimum of 3000 feet of diamond drilling (preferably a core) should be done, to confirm the earlier reported results and extend, laterally and vertically, the present limits of the deposit.
2. If the results from the recommended drilling are sufficiently encouraging, the present mine workings should be de-watered and underground development commenced.
3. A representative sample of dump material, of suitable size, should be shipped to the Bureau of Mines, Ottawa, for copper recovery tests.



It is estimated that the proposed program of work will cost \$25,000.00.

Respectfully submitted,

December 7th, 1951.  
510-100 Adelaide St. West,  
Toronto, Ontario.

"Franc. Joubin"  
FRANC. JOUBIN  
Mining Geologist and  
P. Eng., Ont. & B.C.

C E R T I F I C A T E

I, Franc. Joubin, of the City of Toronto, in the Province of Ontario, hereby certify:

1. That I am a Mining Geologist with business address at 510 Concourse Building, 100 Adelaide Street West, Toronto, Ontario.
2. That I am a graduate of University of British Columbia, B.Sc., M.Sc., and have been practising my profession as a Mining Geologist for a period of 15 years.
3. That I have no direct nor indirect interest whatsoever, nor do I expect to receive any, in the property of Fundy Bay Copper Mines Limited, as covered in the Geological Report, which is attached hereto, and have no interest, nor do I expect to receive or acquire any interest, in the securities of Fundy Bay Copper Mines Limited.
4. That the accompanying Report is not based on a personal examination of the property but is based on a study of engineering reports by John G. McCombe, P.Eng., Ontario, and Dr. W.J. Wright, former Provincial Geologist for the Province of New Brunswick.

DATED at Toronto, Ontario, this 7th day of December, 1951.

"Franc. Joubin"  
FRANC. JOUBIN,  
Mining Geologist and  
P.Eng., Ont. & B.C.

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GEOLOGICAL REPORT  
DORCHESTER COPPER CONCESSION  
NEW BRUNSWICK, CANADA

HISTORY

This concession is underlain by copper-bearing sandstones of Carboniferous age. The copper mineralization, in the form of secondary minerals, is present in low-grade concentration but its distribution is extensive and the tonnage potential appears very great. Since the copper occurs in flat-lying beds, under shallow overburden cover, the deposit could be mined by low-cost open-pit methods. With present high copper prices, a good market and new low-cost metallurgical leach processes for copper ores, these deposits have assumed a new interest.

Although a considerable amount of work was carried out on this property fifty years ago, and some 50 tons of metallic copper were produced, no reports, either Federal, Provincial or private are available, other than in the "Copper Handbook", Vol. II, by Weed, 1912-13.

The writer has not personally examined this property. His sources of information are the "Copper Handbook" and the report of John G. McCombe, P.Eng., Ontario, who examined the deposit in September, 1951.

PROPERTY AND TITLE

The Dorchester Copper property consists of a prospecting concession, covering an area of 28.36 square miles, granted to John G. McCombe, by the New Brunswick Department of Mines under Order-in-Council #51-1090, dated August 23rd, 1951.



## LOCATION AND ACCESS

The Dorchester Copper concession is situated directly north of the Village of Dorchester and is, by road,  $3\frac{1}{2}$  miles north of the main line of the C.N.R. and No. 2 Highway.

## GENERAL GEOLOGY

The concession is underlain by interbedded sandstones, shales and conglomerate of Carboniferous Age. The sandstone beds appear thickest in the vicinity of the old adit workings. The shales are thin beds, seldom exceeding one foot in thickness, while the conglomerate varies from a few inches to several feet in thickness.

The sedimentary series strikes east-west and dips about 12 degrees south with local steepening.

## PROPERTY GEOLOGY, MINERALIZATION & WORKINGS

On the Dorchester concession, the above-described sedimentary series contains some copper-bearing members. The mineralization, consisting of secondary sulphides and carbonates of copper, appears localized throughout the tops of the conglomerate beds.

The copper-bearing members have been explored by several old workings which include:

No. 1 shaft to depth of 120 feet with probably some lateral work.

No. 2 shaft to depth of 150 feet with probably some lateral work.

No. 3 shaft, inclined to 25 feet, no lateral work.

An adit, reportedly for drainage purpose, 1500 feet long.

All workings, except the adit, are now inaccessible and recent sampling tests were confined to the adit and shaft dumps.

Systematic sampling of the adit, during 1951, is reported by the Inspector of Mines for New Brunswick, to have produced 0.62% copper across a width of 385 feet. This average is low, but it proves the extensive distribution of the copper values.

The careful dump sampling recently performed is reported to have returned 2.8% copper per ton.

## CONCLUSIONS

1. This property is ideally situated for low-cost development and operation.
2. The several old workings, distributed in an area measuring 3000' by 5000' have all produced copper-bearing material varying from low to moderate grade.
3. In view of the imposing dimensions of this mineralized area, its attractive open-pit mining aspect and low-cost location, it is felt that 1% copper would, on this property, form ore grade material.

Since present sampling data suggests that this grade limit is a reasonable expectation, a development program is justified.

## RECOMMENDATIONS

1. Extensive and intensive sampling of the deposit is required. Most of this will have to be accomplished by diamond drilling, preferably with large size core.
2. Metallurgical tests are necessary to learn if the vein matter is amenable to the newer low-cost basic leach processes. The Bureau of Mines, Ottawa, would probably assist in this work.



It is estimated that \$25,000 will be required to finance this preliminary investigation of the property's worth.

Respectfully submitted,

December 8th, 1951  
510-100 Adelaide St., West,  
Toronto, Ontario

"Franc. Joubin"  
FRANC. JOUBIN,  
Mining Geologist and  
P.Eng., Ont. & B.C.

C E R T I F I C A T E

I, Franc. Joubin, of the City of Toronto, in the Province of Ontario, hereby certify:

1. That I am a Mining Geologist with business address at 510 Concourse Building, 100 Adelaide Street, West, Toronto, Ontario.
2. That I am a graduate of the University of British Columbia, B.Sc., M.Sc., and have been practising my profession as a Mining Geologist for a period of 15 years.
3. That I have no direct nor indirect interest whatsoever, nor do I expect to receive any, in the property of Fundy Bay Copper Mines Limited, as covered in the Geological Report, which is attached hereto, and have no interest, nor do I expect to receive or acquire any interest, in the securities of Fundy Bay Copper Mines Limited.
4. That the accompanying Report is not based on a personal examination of the property but is based on a study of engineering reports by John G. McCombe, P.Eng., Ontario, and extracts from the "Copper Handbook", Vol. II, by Weed, 1912-13.

DATED at Toronto, Ontario, this 8th day of December, 1951.

"Franc. Joubin"  
FRANC. JOUBIN,  
Mining Geologist and  
P. Eng., Ont. & B.C.

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PROGRESS REPORT

DORCHESTER PROPERTY OF

FUNDY BAY COPPER MINES LIMITED

GENERAL

Since the preparation of my earlier report on this property, dated 8th December, 1951, a copy of which is attached, the property was optioned by Ventures Limited, who undertook some diamond drill exploration with results described below.

HISTORY

Please refer to attached report of December 8th, 1951.

PROPERTY AND TITLE

Please refer to attached report of December 8th, 1951.

LOCATION AND ACCESS

Please refer to attached report of December 8th, 1951.

GENERAL GEOLOGY

Please refer to attached report of December 8th, 1951.



PROPERTY GEOLOGY, MINERALIZATION AND WORKINGS

Please refer to attached report of December 8th, 1951.

RESULTS OF VENTURES DRILLING, 1952

This company drilled 13 vertical holes for an aggregate footage of 2,139 feet. This drilling prospected an area 2,400 feet long and about 500 feet wide to an average depth of about 100 feet.

Results of this drilling indicate that this large volume of rock has an average copper content of 0.22% or 4.4 lbs. per ton.

The Ventures Company report makes reference to a probable loss in copper values owing to grinding and non-recovery of friable chalcocite in drilling the copper-bearing zones.

CONCLUSIONS

The results of the above drilling indicate:

1. Very extensive distribution of the copper values, and
2. That the copper content is of sub-marginal grade.

In view of the doubt remaining as to the accuracy of assay results derivable from drill core sampling of this material, some further limited testing of this deposit is warranted.

RECOMMENDATIONS

It is recommended that four prospect pits be put down in the copper-bearing zone, at say 300 foot intervals along the strike length of the deposit and that all material recovered from these pits be treated for copper recovery in order to learn if the grade so arrived at is appreciably higher than the drill-indicated grade. If these pits are sunk on certain drill holes there will be provided a rough index of comparison between drill-indicated and bulk sampling values.

It is further recommended that a complete chemical analysis be made of the copper-bearing material to learn if certain other better-priced metals are present (ex. silver, selenium, germanium, vanadium, etc.) that occasionally accompany copper in carbonaceous sediments.

It is further recommended that the present large concession area be dropped and in its stead, some twenty mineral claims staked to adequately protect the area of the presently known copper deposits.

Respectfully submitted,

"Franc. Joubin"  
FRANC. JOUBIN,  
Mining Geologist and  
Professional Engineer, Ontario.

May 4th, 1953.  
1922-44 King St. W.,  
Toronto, Ontario.

C E R T I F I C A T E

I, Franc. Joubin, of the City of Toronto, in the Province of Ontario, hereby certify:

1. That I am a Mining Geologist with business address at 1922-44 King Street West, Toronto, Ontario.
2. That I am a graduate of the University of British Columbia, B.Sc., M.Sc., and have been practising my profession as a Mining Geologist for a period of 16 years.
3. That I have no direct or indirect interest whatsoever, nor do I expect to receive any, in the property of Fundy Bay Copper Mines Limited, as covered in the Geological Report, which is attached hereto, and have no interest, nor do I expect to



receive or acquire any interest in the securities of Fundy Bay Copper Mines Limited.

4. That the accompanying Report is not based on a personal examination of the property but is based on a study of engineering reports by John G. McCombe, P.Eng., Ontario, and extracts from the "Copper Handbook", Vol. II, by Weed, 1912-13 and a report on the property for Ventures Limited by J.A. Harquail.

DATED at Toronto, Ontario, this 4th day of May, 1953.

"Franc. Joubin"  
FRANC. JOUBIN,  
Mining Geologist and  
P.Eng., Ont. & B.C.

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A REPORT ON THE  
FUNDY BAY COPPER MINES LTD.  
MANGANESE - BEARING  
CONCESSION IN THE WOODSTOCK AREA OF NEW BRUNSWICK

by G.C. McCartney, P.Eng.

FORWARD

The information contained in this memorandum is taken from reports by W. M. Goodwin of the Geological Survey of Canada, K.M. Ralston of the Department of Research and Development, Canadian National Railways and John G. McCombe, Geologist of Sault Ste. Marie, Ont.

PROPERTY

The property consists of a concession granted Fundy Bay Copper Mines Ltd., under Order-in-Council No. 52-644. The concession includes an area of approximately 30 square miles.

LOCATION AND ACCESS

The concession is situated between the Meduxnekeag and St. John Rivers north and west of the Town of Woodstock, N.B. The concession takes in the iron-manganese showings at Moody Hill, Iron Ore Hill, and Jacksonville as well as other outcrops to the northeast.

It is easily accessible from a transportation standpoint as the immediate area is served by both the Canadian Pacific and Canadian National Railways as well as the main highway between St. John and Edmundston. From Woodstock, the central supply point of the area, it is 63 miles to Fredericton and 157 miles to St. John. The latter point provides shipping facilities for ocean cargoes.

POWER

Limited electrical power may be tapped from a sub station at Jacksonville and is ample for all mining operations although enough is not obtainable for electrical smelting. It is anticipated that in the very near future ample power will be available for the St. John River valley as recent negotiations between the Province of New Brunswick and the State of Maine have resulted in definite joint power development of the upper St. John River.

HISTORY

The deposits were discovered in 1836 and the first development started in 1848 when a blast furnace with a capacity of 7 tons per day was operated. From 1848 to 1880 the deposit was sporadically worked and a total of 70,000 tons smelted, the pig iron being marketed in England. Since 1880 no development, apart from two drill holes, has been carried out.

GENERAL GEOLOGY

The surface expressions of the deposits occur highly folded and contorted



sediments of Silurian Age. To the southeast the area is underlain by pre-Silurian quartzites and slates. Outcrops are scarce and are found mainly along the rivers and the highways.

The Silurian rocks are chiefly red, green, and black slates which in places are cut by diabase dykes. The green and black slates are more abundant than the red slates. These rocks strike northeast and dip steeply to the northwest. The major structure of the Silurian beds appears to be a series of Compressed isoclinal folds trending in a northeasterly direction. At Iron Ore Hill, at the north-east extremity of the main deposits, the structure is a maze of folds and contortions.

Overburden covers the greater part of the area and masks both the geology and structure of the host rocks and the continuity of the deposits themselves.

#### MINERALIZATION

The mineralization consists of an intimate association of hematite and manganite in folded sediments.

#### VALUES

The manganese content of the deposits based on some 17 samples, results of which are given in the Goodwin report, varies between 18.53% and 7.50%. The iron content varies between 33.73% and 11.31%. The average value of the 17 samples is as follows:

<u>IRON</u>	<u>MN.</u>	<u>S.</u>	<u>PHOS.</u>	<u>INSOLUBLE</u>
24.22%	12.70%	0.08%	0.87%	21.76%

Another sample believed to be fairly representative of the deposit gave the following results:

<u>IRON</u>	<u>MN.</u>	<u>S.</u>	<u>PHOS.</u>	<u>INSOLUBLE</u>
31.51%	12.15%	0.02%	1.08%	14.48%

#### STRUCTURE & TONNAGE POSSIBILITIES

There are reported to be similar occurrences of manganese and iron across the international boundary, in Aroostock County, Maine. Officials of the Geological Survey consider the Woodstock deposits to be similar, geologically and structurally to the Maine deposits. It is considered the Iron Hill and the Moody Hill outcrops are part of a continuous deposit that takes the form of a synclinal basin which plunges toward the northwest.

#### METALLURGY

There is a metallurgical problem in the treatment of the Woodstock ore, but the United States Bureau of Mines is making available considerable money for research on this problem and it is expected that a cheap process will soon be announced for the inexpensive production of a highly marketable product.

#### MARKETS

The following quotation from the Engineering & Mining Journal, February, 1952, gives a picture of the existing marketing conditions:

"Requirements of Manganese Ore rose steadily during 1951, and all sources were pressed to the limit to obtain maximum imports."

#### CONCLUSIONS & RECOMMENDATIONS

1. The Manganese deposits are located adjacent to the railway and to highway transportation and within 180 miles of an excellent deep water ocean port.
2. Hydro-Electric power is being developed.



3. It would appear that development of the Manganese deposits is warranted and preliminary work should include the following:

- (a) A Geophysical Survey
- (b) Diamond drilling to the extent of possibly 5,000 feet.

"G. C. McCartney"  
G. C. McCARTNEY,  
Professional Engineer

(Seal)

C E R T I F I C A T E

I, G. C. McCartney, of the City of Toronto, in the Province of Ontario, hereby testify:

- 1. I am a Consulting Geologist, and my address is 15 King Street West, Toronto 1.
- 2. I obtained the degree of Master of Science at the University of Manitoba in the year 1928, and the degree of Doctor of Philosophy at the University of Wisconsin in the year 1931. Since the year 1931, I have practised, and am now practising, in Canada, my profession as a Geologist.
- 3. I have no direct or indirect interest whatsoever in securities or the particular area covered in the accompanying report, nor do I expect to receive any.
- 4. The accompanying report on the Fundy Bay Copper Mines Ltd. Manganese - bearing concession in the Woodstock area of New Brunswick is based upon reports by W. M. Goodwin of the Geological Survey of Canada, K. M. Ralston of Department of Research Development Canadian National Railways and John G. McCombe geologist of Sault Ste. Marie, Ontario.

DATED this 1st day of June, A.D., 1953.

TORONTO  
Ontario.

"G. C. McCartney"  
G. C. McCARTNEY

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REPORT ON THE PROPERTIES OF  
FUNDY BAY COPPER MINES LIMITED

INTRODUCTION

The company owns or has under option five groups of mining claims. These comprise four properties in Restigouche County in the Province of New Brunswick and one property in Township 28, Range 15, in the Province of Ontario. The properties in New Brunswick are wholly owned while the property in Ontario is held under option agreement.

All four claim groups in New Brunswick are located on the Southeast Upsalquitch watershed. This area is situated some thirty-five miles to the northwest of the base metal mining area in the vicinity of the town of Bathurst. It is of interest at this time because of the known presence of geological and structural conditions considered favorable for the deposition of base metal minerals. It is considered that reported sizable magnetic anomalies in the vicinity of regional faults further enhance the possibilities of the area.

Because the region is snow-covered at present no personal examination of the properties in New Brunswick was made. That part of the report covering the company's New Brunswick holdings is based on a study of geological reports and maps of the area, aerial photographs and discussions with the company's technical staff.



## DESCRIPTION OF PROPERTIES

### Township 28, Range 15, Sault Ste. Marie Mining Division, Ontario

The property comprises a compact group of sixteen unsurveyed and unpatented mining claims in Township 28, Range 15 of the Sault Ste. Marie Mining Division, in the Province of Ontario. The claims are numbered, SSM-16764 to SSM-16777 inclusive and SSM-24278 and SSM-24287 being in extent, some 640 acres, more or less.

## HISTORY

The claims were staked in 1949 following the discovery of pitchblende at Theano Point some eight miles to the southwest. The eastern portion of the property was subsequently held by Napray Mining Company Limited and later by Cove Uranium Mines Limited. A portion of these claims traversed by favorable geological features and containing radioactive deposits was recently acquired by Mr. J. G. McCombe. The balance of the claim group has been held under option by Mr. McCombe for some years. Fundy Bay Copper Mines Limited is interested in the entire group by right of options and sub-options granted by Mr. J.G. McCombe.

## LOCATION, ACCESS, ETC.

The west boundary of the property follows the west township boundary from approximately mileage 2.5 to 3.1. The northwest corner of the claim group touches on the shore of Lake Superior at the latter point.

A harbour at the mouth of the Montreal River, some three and one half miles southwest of the property, is connected to the City of Sault Ste. Marie by seventy-eight miles of paved highway. From this harbour entrance, the property may be reached by power launch along the shore of Lake Superior, or by one of several existing bush trails. The main line of the Algoma Central and Hudson Bay Railway Company passes some eight miles to the east.

The power station of the Great Lake Power Company is situated three and one half miles to the southeast. The area is moderately timbered with hardwood and evergreens. Lake Superior could furnish an unlimited water supply.

There are no permanent camps or installations on the property.

## TOPOGRAPHICAL FEATURES

The area is extremely rugged with the maximum relief being of the order of five hundred feet above the level of Lake Superior. The surface features comprise a series of ridges and drainage basins. These latter low areas form an irregular north-westerly pattern through the claims and are generally bounded at various places along their length by high escarpments.

## GENERAL GEOLOGY

The claims are underlain by Algonian granites. Facies of this rock outcrop throughout the property. The exposures are generally medium to coarse grained types and vary in color from pale grey to deep pink. Coarse pegmatitic phases are common. Roof pendants of grey gneiss overlies portions of the granite mass and outcrop on the property. These represent remnants of an older period of rock formation removed in part by glacial erosion. They are limited in both lateral and vertical extent.

Diabase dykes intrude both the granitic and grey gneiss series. Several such dykes are present on the claim group, the majority of which strike in a north-westerly direction and dip steeply to the northeast.

There is much evidence suggestive of north-easterly striking cross faults along the diabase dykes. Horizontal movement is indicated along some of these faults but such movements have been of limited extent.

## ECONOMIC GEOLOGY

Pitchblende has been found in the area, occurring along the contacts of diabase dykes and in subsidiary fracture zones within them. Such concentrations



have been found in most instances in the vicinity of cross faults or where a change in direction of the dyke has resulted in an opening along the contact.

It is indicated from preliminary geological investigations that such conditions are present on the claim group.

Radioactive mineralization is known to be associated with two diabase dykes known as the "McCombe Dyke" and the "Stibbard Dyke". Both dykes have been followed from the shore of Lake Superior in a south-easterly direction across claims SSM-16777, 16776, 24287 and 24278 of the claim group.

#### EXTENT OF WORK

A program of geological mapping has been conducted over parts of the property. Scintillometer surveys have been completed over various parts of both the "McCombe" and "Stibbard" dykes where they traverse the property. A small amount of trenching for sampling purposes has been done on the radioactive areas of greatest interest.

#### MINERAL SHOWINGS

Radioactive occurrences were found along the "McCombe" and "Stibbard" dykes in many places on the property in 1949. Subsequently, a limited amount of rock trenching and sampling was completed in 1950 on that part of the dyke passing across claim SSM-24278.

The following table shows the possible length of the radioactive zones indicated by scintillometer methods and the results of partial sampling of the deposits on claim SSM-24278.

Claim Number	Distance from No. 2 Post SSM-16776 (feet)	Indicated Length of Radioactivity (feet)	Assay Equivalent $U_3O_8$ (Chemical Analysis)
SSM-16776	720-850	130	
"	300-340	40	
"	125-		
SSM-24278	-50	175	
SSM-24278	255-285	30	0.77%
			0.84%
"	300-395	95	0.46%
			0.18%
"	460-490	30	No Samples Taken
	945-1140	195	No Samples Taken

#### NOTE:

The above figures are taken from the scintillometer survey and assay plan accompanying Supplementary Report - Napray Mining Company Limited by John G. McCombe, Mining Geologist - later revised as to claim locations on restaking of claims. The included assays are believed to represent grab samples and are not considered as representative of the total extent of the individual radioactive deposits.

#### CONCLUSIONS AND RECOMMENDATIONS

The property is situated in an area where pitchblende mineralization has been found. The geology of the property and known structural features are most favorable for the deposition of pitchblende and other radioactive mineralization. Radioactivity has been found along the "McCombe" and "Stibbard" dykes over sufficient lengths to warrant further investigation. Appreciable chemical assays of  $U_3O_8$  are said to have been obtained from initial sampling of surface trenches on some of the radioactive zones outlined on claim SSM-24278.

It is recommended that further surface trenching and more detailed sampling be carried out on the radioactive zones along the "McCombe" and "Stibbard" dykes. Consideration might be given to the "panel method" of sampling. Should the additional surface results warrant, an initial diamond drilling program might be considered to test the largest radioactive deposits at below surface horizons.



## REFERENCES

1. Report, Mining Claims SSM-16731 to SSM-16736, Township 28, Range 15, District of Algoma, Province of Ontario, by John G. McCombe, Mining Geologist, September 1st, 1950.
2. Supplemenary Report, Napray Mining Company Limited on Mining Claims in Township 28, Range 15, District of Algoma, Province of Ontario by John G. McCombe, Mining Geologist.
3. Scintillometer Survey Map showing geology, structure and radioactive intensities on the "McCombe Dyke".
4. Sketch map showing Dyke System - John G. McCombe and McCombe Option Properties, Sault Ste. Marie Uranium Area, District of Algoma.

## PROPERTIES I, II AND III

### Parish of Balmoral - Province of New Brunswick

The company owns four claim groups in the Parish of Balmoral in the County of Restigouche in the Province of New Brunswick. These are more particularly described as follows:

Claim group No. I comprises twenty-one claims numbered 1522-1 to 1522-21 inclusive containing a total of 840 acres more or less. They are situated at the head waters of the north branch of Meadow Brook. Tongue Lake is situated at the south-western corner of the largest of the Jacquet River Lakes.

Group II contains thirty mineral claims of some 40 acres each, a total of approximately 1,200 acres. The claims are numbered 1522-26 to 1522-55 inclusive.

The northeast corner of the property is approximately three miles south-east of the Southeast Upsalquitch River at a point some four miles up stream from the "Forks". The property includes portions of the valleys of both Mulligan Gulch and the east branch of Ferguson Brook.

Group III includes twenty mineral claims of a total of about 800 acres. The west boundary of the group is approximately one and one quarter miles east of the east boundary of Group II and its each boundary is some three quarters of a mile west of the junction of Oxbow Brook with the Southeast Upsalquitch River. The property includes a portion of the valley of the head of the Oxbow Brook. The claims are numbered 1522-22 to 1522-25 inclusive and 1522-56 to 1522-71 inclusive.

Claim Group IV contains twenty-one claims numbered 1522-82 to 1522-102 inclusive. The northeast corner of the property is located approximately one mile west of Ramsey Sheds at the junction of Ramsey Brook and the Southeast Upsalquitch River.

The claims in all four groups were acquired by the company by staking and are registered in the name of Fundy Bay Copper Mines Limited, at the Department of Mines, Fredericton, New Brunswick.

## ACCESS, ETC.

All four groups of claims are accessible by road, from the Town of Dalhousie, some forty miles to the northeast. Branch roads pass through Groups I, III and IV and follow within a few hundred feet of the south boundary of Group II.

While the area is well timbered with evergreens, timber rights are held by the International Paper Company (New Brunswick) Limited.

Water supply is readily available from the many brooks and small lakes throughout the area. This supply should prove sufficient for initial requirements at least. Electric power is present at Chaleur Bay about forty miles to the north.

Topographical relief is generally rugged with deeply cut valleys and high steep hills. Some of the well defined depressions represent regional faulting and certain escarpments are suggestive of secondary faults.



## GENERAL GEOLOGY

The area is underlain by rock formations of Paleozoic Age. The majority of these comprise interbedded flows and sediments which have been altered to shales, schists and gneisses. Flow rocks grade from rhyolite to andesite. These constitute the competent portion of the Paleozoic Series in the area. They are frequently fractured and are considered a favorable locale for mineral deposition.

The youngest formations mapped within the area are the undivided Devonian Series consisting of interbedded, shales, sandstones and conglomerates.

## STRUCTURAL FEATURES

The principal structural feature in the area is the Meadow Brook Fault. It has been traced along a well defined depression in a north-easterly direction for a distance of at least forty miles. The trace of this fault passes through Groups II and III and some 1,500 feet to the south of the south boundary of Group I.

In addition traces of secondary or local faults paralleling this main regional fault are indicated by the existence of other topographical depressions. At least two such features are present on Group I and one on Group II. A further set of local faults follow escarpments in a direction a few degrees east of true north. At least two of these interrupt the Meadow Brook regional fault in the vicinity of Groups II and III.

## MAGNETIC ANOMALIES

From the study of as yet unpublished maps the company's management reports the presence of magnetic anomalies adjacent to the trace of the Meadow Brook fault, with others roughly paralleling the fault but some distance away. One anomaly is reported to pass through the No. 2 group, a few hundred feet north of the Meadow Brook regional fault and a similar distance south of a paralleling fault structure. A second anomaly reportedly passes through claim Group IV, some four and one half miles south of the fault structure.

The reason for the presence of these magnetic anomalies has not been determined. The first mentioned anomaly appears to continue in a north-easterly direction to within 1,800 feet of the west boundary of the No. 3 group where it closely approaches the Meadow Brook Fault.

## ECONOMIC GEOLOGY

No mineral showings are known to be present on Claim Groups I, II, III or IV. However, the similarity of general geological conditions of the Southeast Upsalquitch area and those in the vicinity of base metal deposits some forty miles to the southeast leads to the present interest in the claim groups.

## CONCLUSIONS AND RECOMMENDATIONS

Information as to the detailed geology of the area is at best limited. No mineralized showings have yet been discovered and the properties must be considered purely as prospects. However, certain structural conditions are considered favorable for the occurrence of economic minerals. The reported presence of magnetic anomalies in the vicinity of these structures adds to their interest. The company's properties straddle or are situated adjacent to these features.

Claim Groups II and III are well located along a major regional fault structure. Claim Group I is situated within 1,500 feet of the trace of this structure and straddles two paralleling subsidiary faults.

A reported magnetic anomaly closely associated with the major regional fault appears to traverse Group II, and a second anomaly is believed to traverse Group IV.

While no ore deposits are known to be present on the four groups at this time, they are considered to be favorably located for such occurrences, and should be investigated. The initial investigation should include a program of detailed geological mapping accompanied by close prospecting for mineral occurrences. Particular attention to structural detail should be stressed during the mapping program. A geophysical survey including a magnetic or electro-magnetic



method, considered as an aid to locating such sulphide bodies as may be present on the various properties should be carried out. This work could well accompany the geological mapping program.

It is estimated that the cost of this program would be of the order of \$25,000.

#### REFERENCES

1. Map 641-A Jacques River, Department of Mines and Resources, Ottawa, Ontario.

2. Map 259-A New Brunswick, Gaspe Sheet, Department of Mines and Resources, Ottawa, Ontario, reprint 1939.

3. Map 910-A Geological map of the Maritimes Provinces, Department of Mines and Resources, Ottawa, Ontario, published 1949.

Respectfully submitted,

"Frederick C. Knight"

FREDERICK C. KNIGHT, B.Sc., P.Eng.

Toronto, Ontario  
March 18, 1953.

#### C E R T I F I C A T E

I, Frederick C. Knight, of the City of Toronto, in the Province of Ontario, hereby certify as follows:

1. That I am a practising Mining Engineer, with offices at Suite 1405 330 Bay Street, Toronto, Ontario.

2. That I am a graduate of Queen's University, Kingston, Ontario, hold the degree of B.Sc. in Mining, and am a member of the Association of Professional Engineers of the Province of Ontario.

3. That I have no interest either directly or indirectly and I do not expect to receive any interest either directly or indirectly in the properties covered in this report, nor do I expect to receive any interest in the securities of Fundy Bay Copper Mines Limited.

4. That the accompanying report, with respect to the properties in Township 28, Range 15, in the Sault Ste. Marie Mining Division in the Province of Ontario, are based on personal examinations in mid 1950.

5. That the accompanying report with respect to the four claim groups in the Parish of Balmoral, Restigouche County, New Brunswick is not based on a personal examination of the properties, but in part on reference to publications of the Department of Mines and Resources, Ottawa, Ontario, which references are incorporated into the report, on general knowledge of the area and on personal communication from technical men familiar with the area.

6. This certificate applies to Fundy Bay Copper Mines Limited, properties located in Township 28, Range 15, Sault Ste. Marie Mining Division, Ontario and the Parish of Balmoral, Restigouche County, New Brunswick.

DATED this 18th day of March, A.D., 1953.

"Frederick C. Knight"

FREDERICK C. KNIGHT, B.Sc., P.Eng.  
Mining Engineer



FUNDY BAY COPPER MINES LIMITED - TORONTO, CANADA  
(No Personal Liability)

BALANCE SHEET

APRIL 30, 1953

A s s e t s

Cash on hand and in bank	\$ 27,868.58
Accounts Receivable - Director	1,639.99
Accounts Receivable - re Geophysical Survey Contract	2,125.00
Mining concession in the Dorchester area of Westmoreland County, New Brunswick - O-in-C 52-38, acquired for 750,000 paid up shares valued by the Directors at 10¢ per share	75,000.00
Other mining properties at cost - as per Schedule A	17,486.50
Deferred development and preproduction expenses - as per Schedule B	25,336.88
Deferred administrative and office expenses - as per Schedule C	4,266.98
Organization expenses	<u>2,818.55</u>

TOTAL ASSETS \$156,542.48

L i a b i l i t i e s

Accounts Payable and accrued charges	\$ 992.25
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N e t W o r t h

CAPITAL STOCK

Authorized

3,000,000 shares of \$1.00 par value each \$3,000,000.00

Issued and paid up

For properties

750,000 shares @ \$1.00 750,000.00

Less: Discount thereon -

750,000 shares @ 90¢ 675,000.00 75,000.00

For cash

489,642 shares @ \$1.00 489,642.00

Less: Discount thereon -

163,000 shares @ 90¢ 146,700.00

295,400 shares @ 85¢ 251,090.00

1,237 shares @ 80¢ 989.60

30,000 shares @ 62½¢ 18,750.00

417,529.60

72,112.40

147,112.40

CAPITAL SURPLUS

Gain on sale of mining properties 8,437.83

PRESENT NET WORTH 155,550.23

\$156,542.48

NOTE: The Underwriter is firmly committed to purchase 25,000 shares of the Company at 20¢ per share. In addition, the Company has granted to the underwriter an option to purchase 975,000 shares at prices ranging from 20¢ to 75¢ per share.

APPROVED ON BEHALF OF THE BOARD OF DIRECTORS

"J. B. Symington"

"Hylde Moriarty"

Subject to our report dated May 19, 1953.



FUNDY BAY COPPER MINES LIMITED - TORONTO, CANADA  
(No Personal Liability)

AS AT APRIL 30, 1953

OTHER MINING PROPERTIES (AT COST)

SCHEDULE A

Pickerell Township claims, Ontario	\$ 682.16
Claims in South East Upsalquitch area, Restigouche County, New Brunswick	7,804.34
Uranium claims, Sault Ste. Marie, Mining Division, Ontario	<u>9,000.00</u>
	<u>\$17,486.50</u>

DEFERRED DEVELOPMENT AND PREPRODUCTION EXPENSES

SCHEDULE B

Field operating supplies	\$ 1,025.97
Mining licenses and fees	548.28
Consultation fees and salaries	9,000.00
Travelling expenses - Exploration and development	5,646.33
Geology reports	350.00
Prospecting and property examination	3,420.72
Geophysical surveys, etc., expense	<u>5,345.58</u>
	<u>\$25,336.88</u>

DEFERRED ADMINISTRATIVE AND OFFICE EXPENSES

SCHEDULE C

Accounting and secretarial fees	\$ 775.00
Advertising	346.45
Telephone and telegraph expense	547.07
Legal and audit fees	1,682.22
Stock transfer and registration fees - Crown Trust Company	546.52
Bank interest and exchange	59.72
Insurance bond	10.00
Office rent	<u>300.00</u>
	<u>\$ 4,266.98</u>

Subject to our report dated May 19, 1953

To the Directors and Shareholders,  
Fundy Bay Copper Mines Limited,  
Toronto, Canada.

Gentlemen:

We have completed an audit of the books of the above Company for the fiscal year ended April 30th, 1953 and, in our opinion, the attached Balance Sheet is properly drawn up so as to show a true and correct view of the state of affairs of the Company as at the 30th of April, 1953 according to the best of our information and the explanations given to us and as shown by the books of the Company. All our requirements as auditors have been complied with.

Respectfully submitted,

"Chas. H. Sanders & Company"

Accountants & Auditors

May 19, 1953.